

Urban Simulation Practicals

Dependencies

To set up your python environment and run the code in the practicals, follow the instructions below.

1. Download and install [anaconda](https://docs.anaconda.com/anaconda/install/) (<https://docs.anaconda.com/anaconda/install/>).
2. Download and unzip the material from Friday practical sessions week 1.
3. Open command prompt (or terminal if on Mac).
4. In the command prompt (or terminal) navigate to the directory where you unzipped the file. This folder contains an environment.yml file: example bellow.

```
cd C:\Users\username\git\urban_simulation
```

5. Install Jupyter Notebook if not already installed.

```
conda install -c conda-forge notebook
```

6. Create a new environment using the environment.yml file and activate the environment.

- **Linux or Mac:**

```
conda env create -f environment_mac.yml source activate urbsim
```

- **Windows:**

```
conda env create -f environment.yml activate urbsim
```

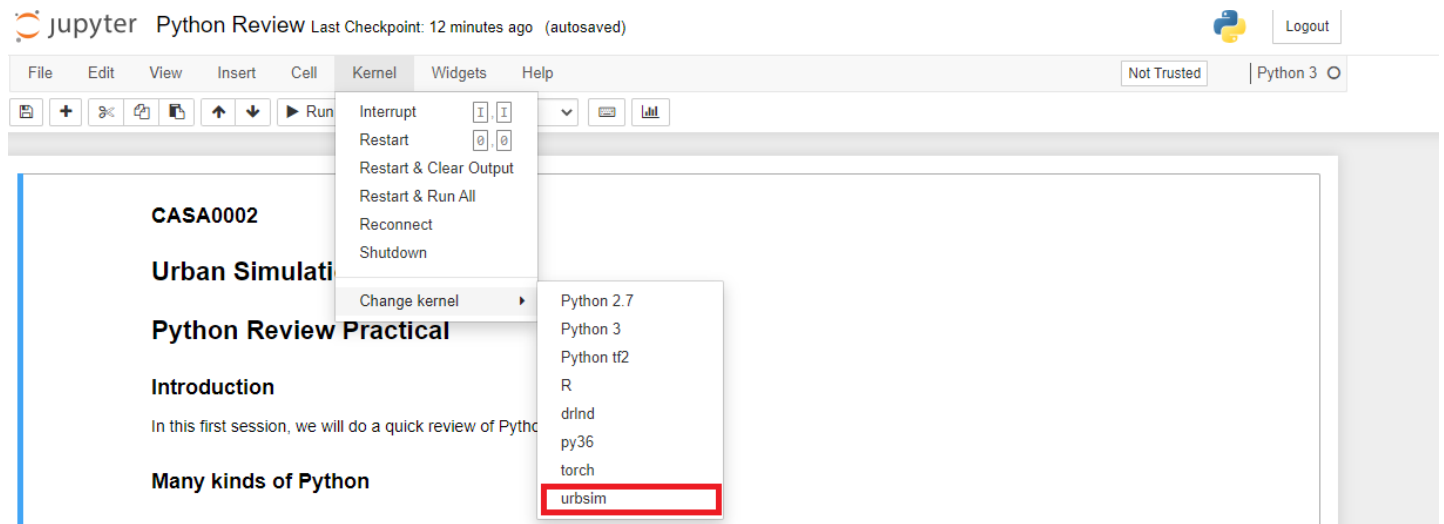
7. Create a [IPython kernel](http://ipython.readthedocs.io/en/stable/install/kernel_install.html) (http://ipython.readthedocs.io/en/stable/install/kernel_install.html) for the urbsim environment.

```
python -m ipykernel install --user --name urbsim --display-name "urbsim"
```

8. Launch jupyter notebook.

```
jupyter notebook
```

9. Before running code in a notebook, change the kernel to match the urbsim environment by using the drop-down Kernel menu.



The screenshot shows a Jupyter Notebook interface. At the top, it says 'jupyter Python Review Last Checkpoint: 12 minutes ago (autosaved)' and 'Logout'. Below the menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help), there's a status bar showing 'Not Trusted' and 'Python 3'. The 'Kernel' menu is open, showing options: Interrupt, Restart, Restart & Clear Output, Restart & Run All, Reconnect, Shutdown, and 'Change kernel'. The 'Change kernel' sub-menu is also open, showing a list of kernels: Python 2.7, Python 3, Python tf2, R, drlnd, py36, torch, and 'urbsim', which is highlighted with a red box. The notebook content on the left shows a title 'CASA0002 Urban Simulation Python Review Practical' and an introduction section.